



**CENTREVILLE, NEW RIVER CROSSING  
POTENTIAL WETLAND COMPENSATION SITE**

**ISGS #66**

FAP 999

St. Clair County, near Centreville, Illinois

**Primary Project Manager: Steven E. Benton**

**Secondary Project Manager:** not assigned

**SITE HISTORY**

- December 2001: An Initial Site Evaluation was performed.
- March 13, 2002: A Level II hydrogeologic assessment was requested by IDOT.
- July 2002: A monitoring network consisting of 28 monitoring wells in 14 well clusters, and a staff gauge and data logger in the main drainage ditch was installed.
- February 2004: Level II hydrogeologic characterization report submitted to IDOT.
- July 2004: IDOT requested that monitoring of this site be discontinued.

**WETLAND HYDROLOGY CALCULATION FOR 2004**

The area of the site that satisfied wetland hydrology criteria (U.S. Army Corps of Engineers 1987) for more than 5% of the 2004 growing season was estimated to be 11.5 ac (4.6 ha), which is about 20% of the site. The area that satisfied wetland hydrology criteria for more than 12.5% of the growing season was also estimated to be 11.5 ac (4.6 ha). These estimates are based on the following factors:

- According to the Midwest Climate Center, the median length of the growing season, as measured at the Belleville SIU Research station, is 203 days (April 5 to October 24); 12.5% of the growing season is 25 days.
- Total precipitation during the monitoring period, as recorded at the SIU Belleville, IL Research station, was 49.07 inches, which was 125% of normal. The wettest month during the period was May 2004 (209% of normal), and the driest month was April 2004 (34% of normal). Precipitation was below normal from February 2004 to April 2004, otherwise there were no other extended periods greater than 2 months of either above or below normal precipitation.
- In 2004, water levels measured in wells 1S, 2S, 3S, 5S, and 10S satisfied the wetland hydrology criteria for more than 5% of the growing season. These same wells also satisfied the wetland hydrology criteria for more than 12.5% of the growing season.
- Surface-water data recorded in the main drainage ditch (Global 1) reveal that water was present in the main ditch for more than 5% of the growing season. Water was also present for more than 12.5% of the growing season. Surface-water data recorded at staff gauge B, reveals that areas below an elevation of about 123.4 m were inundated for more than 5% of the growing season. These areas were also inundated for more than 12.5% of the growing season. Visual observations also reveal that water was present in the subsidiary drainage ditch during the months of May and June.

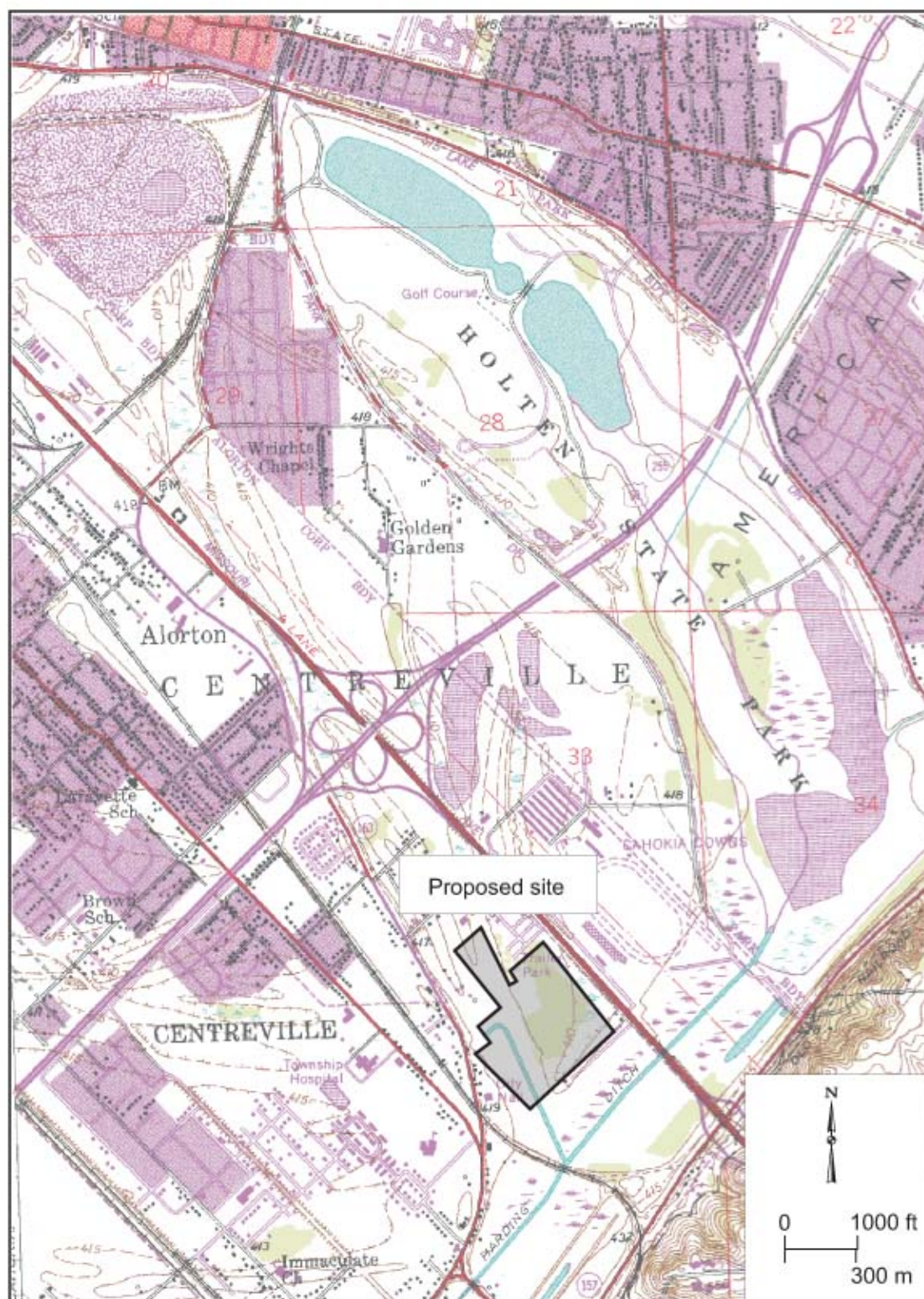
## PLANNED FUTURE ACTIVITIES

- Monitoring wells and staff gauges at this site will be removed as soon as possible.

# Centreville, New River Crossing Potential Wetland Compensation Site (FAP 999)

## General Study Area And Vicinity

base map from the French Village 7.5-minute Quadrangle (USGS 1998)



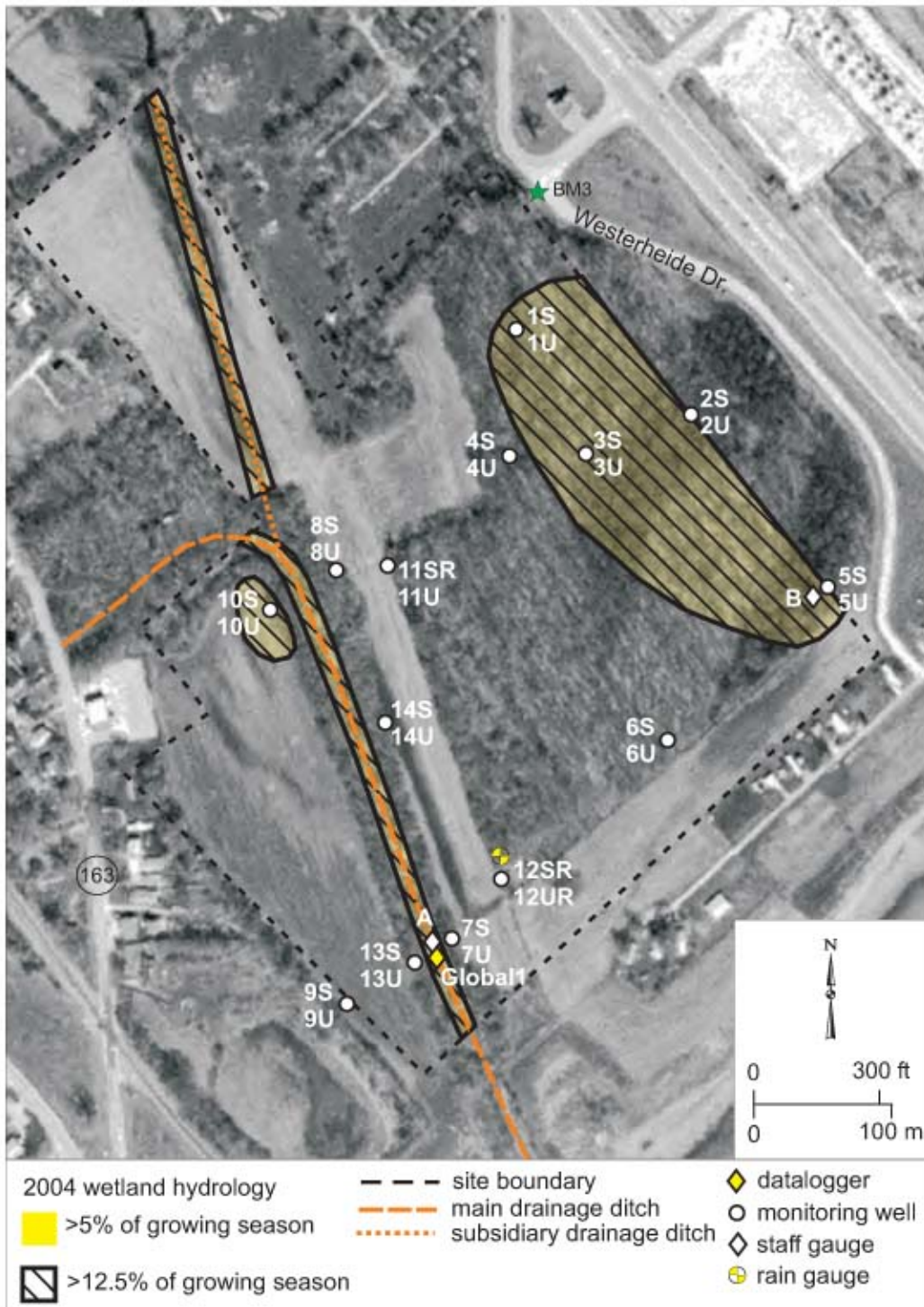


# Centreville Potential Wetland Banking Site (New River Crossing, FAP 999)

## Extent of 2004 Wetland Hydrology

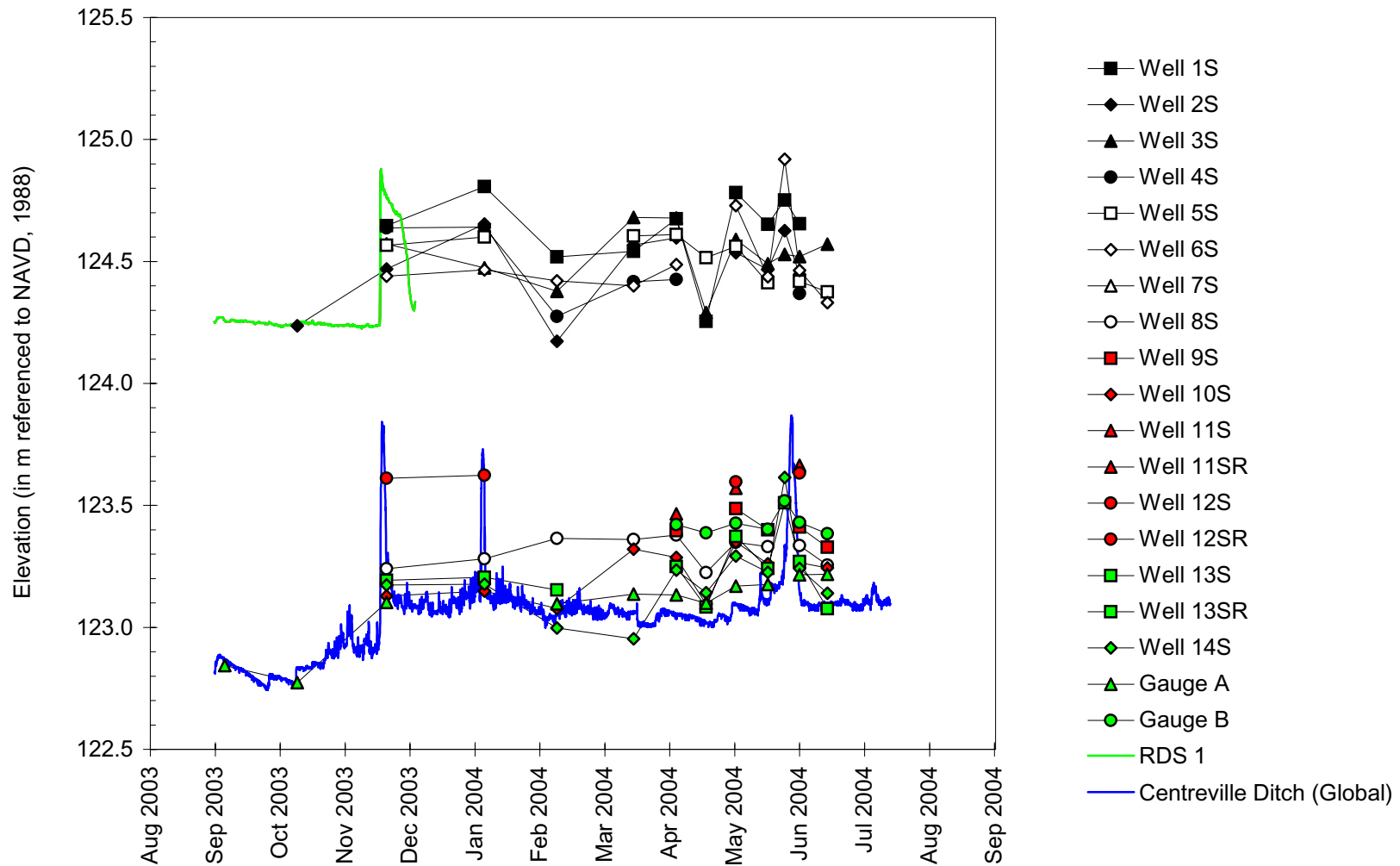
based on data collected from September 1, 2003 to September 1, 2004

aerial photography from the French Village, NW Digital Orthophoto Quadrangle

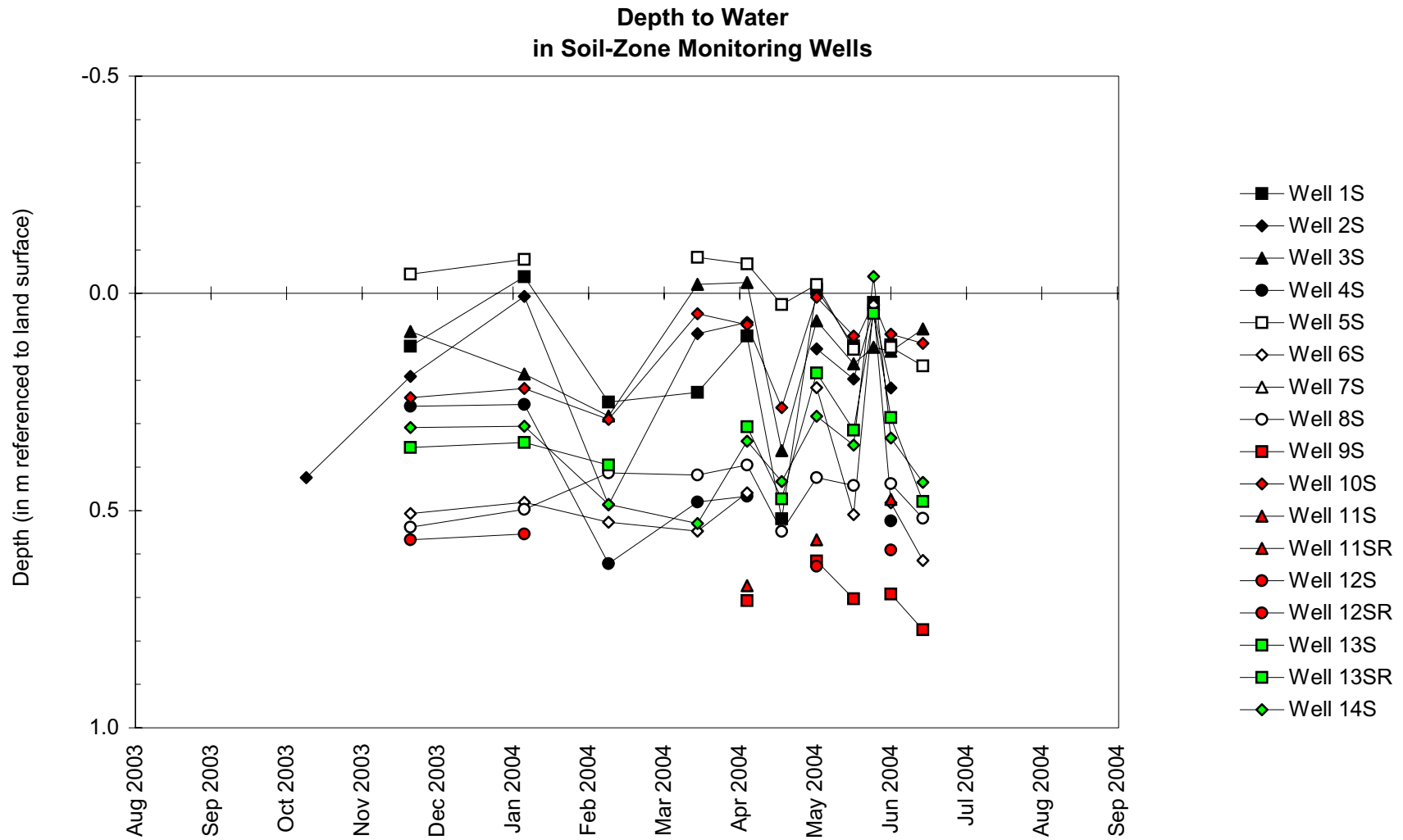


# **Centreville, New River Crossing Potential Wetland Compensation Site** **September 1, 2003 to September 1, 2004**

## **Water-Level Elevations** **in Soil-Zone Monitoring Wells, on the Stage Gauge, and at the Data Loggers**



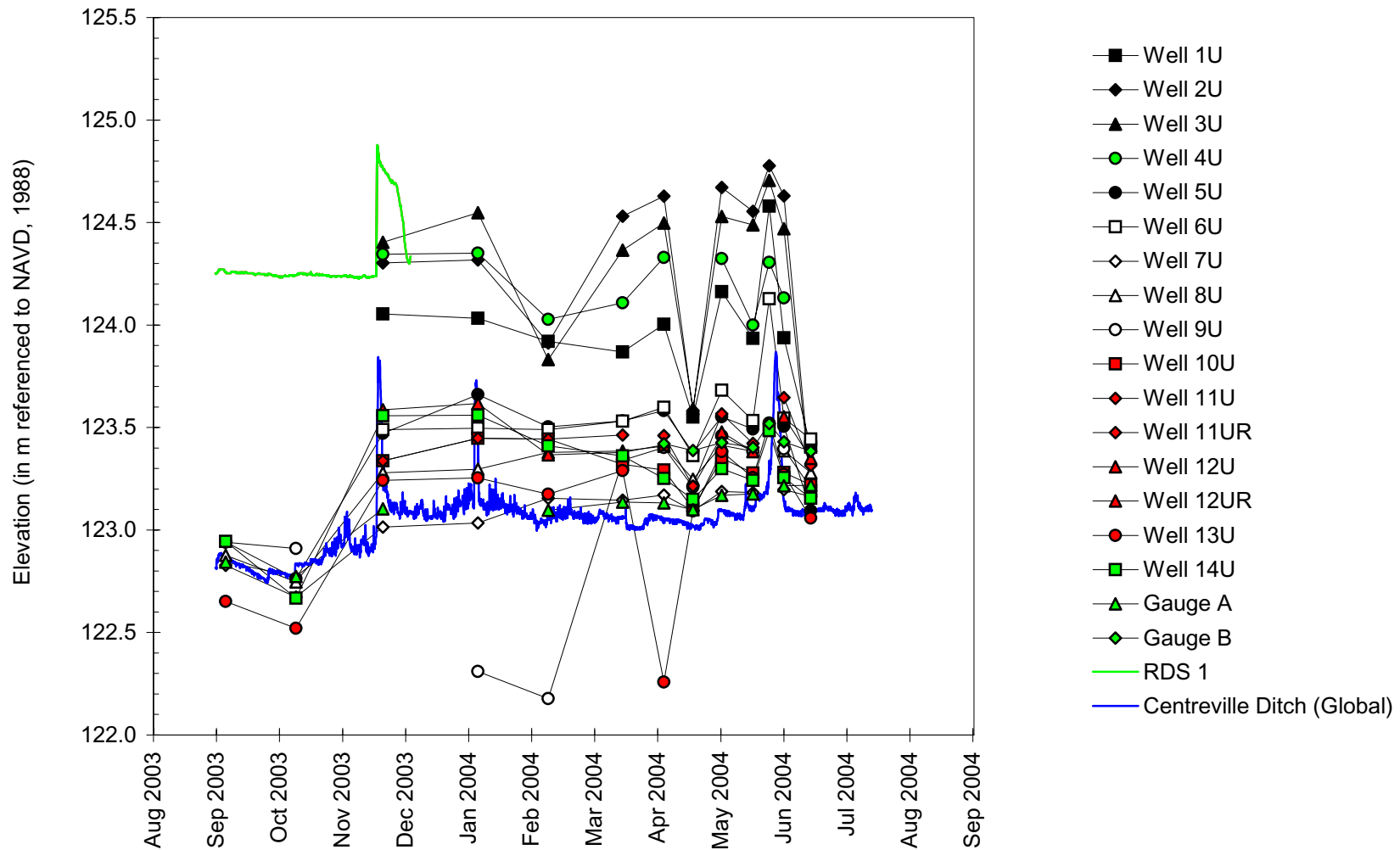
**Centreville, New River Crossing Potential Wetland Compensation Site**  
**September 1, 2003 to September 1, 2004**



# Centreville, New River Crossing Potential Wetland Compensation Site

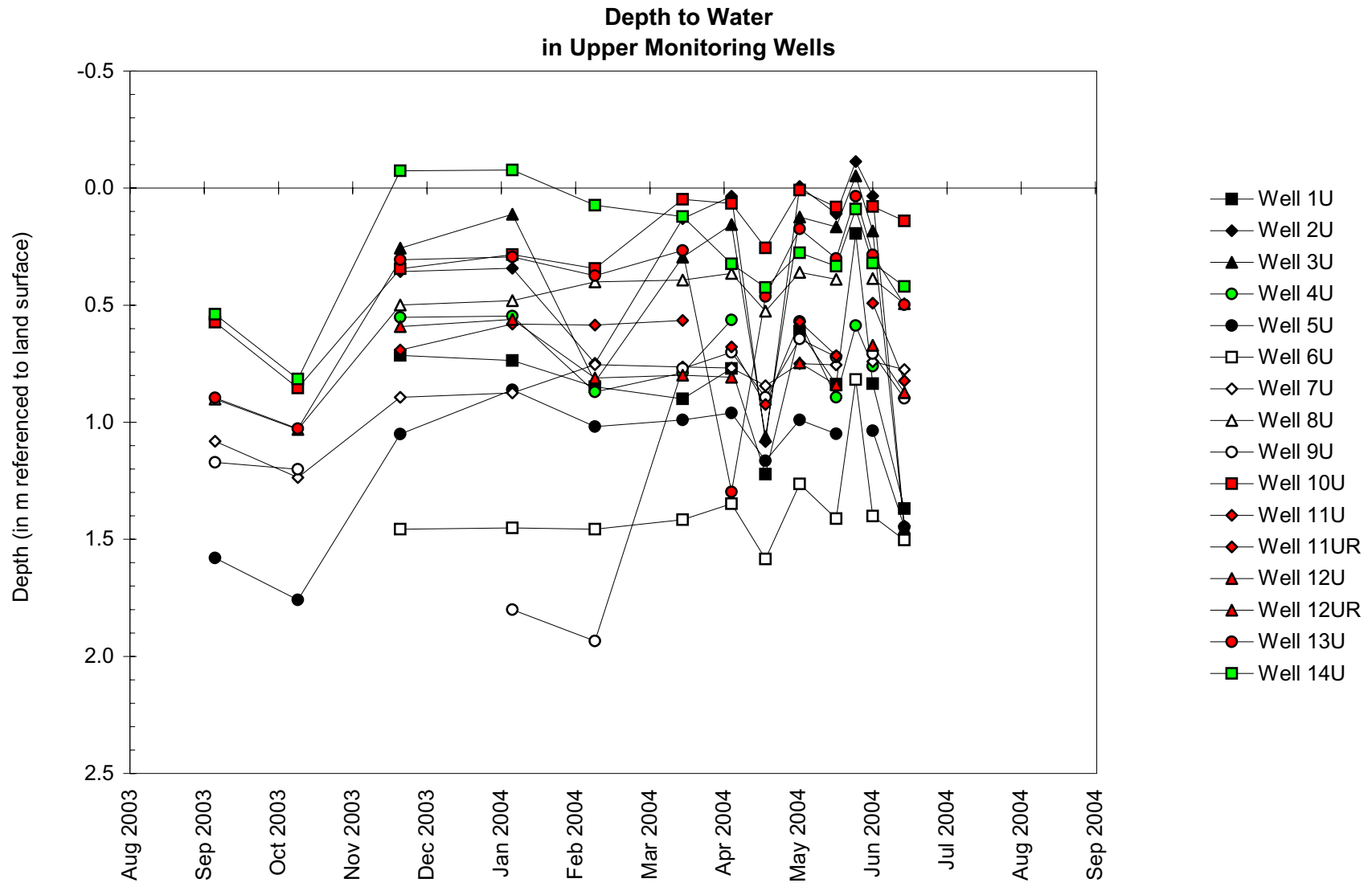
## September 1, 2003 to September 1, 2004

### Water-Level Elevations in Upper Monitoring Wells, on the Stage Gauge, and at the Data Loggers





**Centreville, New River Crossing Potential Wetland Compensation Site**  
**September 1, 2003 to September 1, 2004**



# **Centreville, New River Crossing Potential Wetland Compensation Site September 2003 through August 2004**

**Total Monthly Precipitation Recorded at the  
Belleville, IL SIU Research Center Weather Station**

